```
Recursive
                                                   Non-Recursive
#include <iostream>
                                                   #include <iostream>
using namespace std;
                                                   using namespace std;
int fibonacci(int n){
                                                   int main(){
if(n<=1)
                                                   int a=0,b=1,c,n;
return n;
                                                   cout<<"Enter a number"<<endl;
return fibonacci(n-1)+fibonacci(n-2);
                                                   cin>>n;
                                                   for(int i=2;i<=n;i++){
int main(){
                                                   c=a+b;
                                                   cout<<c<" ";
int n;
cout<<"Enter a number"<<endl;
                                                   a=b;
cin>>n;
                                                   b=c;
cout<<"Result is"<<fibonacci(n);
return 0;
                                                   return 0;
                                                   }
OUTPUT:
                                                   OUTPUT:
Enter a number
                                                   Enter a number
Result is8
                                                   12358
```